

C1
Contd.

wherein the ultrasonic vibration has a frequency of between 10 and 100 kHz, and results in a zone of ultrasonic vibration in the crystallising mixture, and wherein the crystalline energetic materials have increased stability and decreased sensitivity with respect to the raw energetic materials.

C2

9. (Twice Amended) A process for the production of crystalline energetic materials, comprising:
preparing a crystallising mixture containing raw energetic materials;
subjecting the crystallising mixture to ultrasonic vibration during crystallization; and
harvesting the crystalline energetic materials,
wherein the ultrasonic vibration has a frequency of between 10 and 100 kHz, and results in a zone of ultrasonic vibration in the crystallising mixture,
wherein the crystallising mixture is stirred during crystallisation, and is passing through the zone of ultrasonic vibration continuously, and
wherein the crystalline energetic materials have increased stability and decreased sensitivity with respect to the raw energetic materials.

C3
Contd.

14. (Twice Amended) A process for the production of crystalline energetic materials, comprising:
preparing a crystallising mixture containing raw energetic materials;
subjecting the crystallising mixture to ultrasonic vibration during crystallization; and
harvesting the crystalline energetic materials,
wherein the ultrasonic vibration has a frequency of between 10 and 100 kHz, and results in a zone of ultrasonic vibration in the crystallising mixture,
wherein the crystallising mixture is stirred during crystallisation, and is passing through the zone of ultrasonic vibration continuously,
wherein the temperature during crystallisation is between 15 and 75°C,
wherein the ultrasonic vibration is generated using an ultrasonic probe having an amplitude between 0.4 and 10 μm , and

wherein the crystalline energetic materials have increased stability and decreased sensitivity with respect to the raw energetic materials.

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18. (Twice Amended) A process for the production of crystalline energetic materials, comprising:
- preparing a crystallising mixture containing raw energetic materials;
 - subjecting the crystallising mixture to ultrasonic vibration during crystallization; and
 - harvesting the crystalline energetic materials,
- wherein the ultrasonic vibration has a frequency of between 10 and 100 kHz, and results in a zone of ultrasonic vibration in the crystallising mixture,
- wherein the crystallising mixture is stirred during crystallisation, and is passing through the zone of ultrasonic vibration continuously,
- wherein the temperature during crystallisation is between 15 and 75°C,
- wherein the ultrasonic vibration is generated using an ultrasonic probe having an amplitude between 0.4 and 10 μm ,
- wherein the raw energetic materials are selected from a group consisting of explosives and high energy oxidizers, and
- wherein the crystalline energetic materials have increased stability and decreased sensitivity with respect to the raw energetic materials.

REMARKS

Claims 1, 2, 9-12, 14-16, 18, 20, 21, 23, 25 and 26 are rejected. Claims 1, 9, 14 and 18 have been amended. No new matter is added. Reconsideration and allowance of all pending claims are respectfully requested.

Claim Rejections

Claims 1, 2, 9-12, 14-16, 18, 20, 21, 23, 25 and 26 are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 5,833,891 to Subramaniam et al. ("Subramaniam") in view of